



# TORQ Analysis of Packaging and Filling Machine Operators and Tenders to Woodworking Machine Setters, Operators, and Tenders, Except Sawing

## INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Packaging and Filling Machine Operators and Tenders	51-9111.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	51-7042.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

## OUTPUT SECTION:

Grand TORQ:

88

Ability TORQ				Skills TORQ				Knowledge TORQ			
Level		<div></div> 91		Level		<div></div> 88		Level		<div></div> 84	
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Oral Comprehension	51	7	62	No Skills Upgrade Required!				No Knowledge Upgrades Required!			
Arm-Hand Steadiness	48	6	59								
Speech Recognition	41	4	53								
Rate Control	44	3	59								
Visualization	51	3	56								
Information Ordering	44	2	53								

LEVEL and IMPT (IMPORTANCE) refer to the Target Woodworking Machine Setters, Operators, and Tenders, Except Sawing.  
GAP refers to level difference between Packaging and Filling Machine Operators and Tenders and Woodworking Machine Setters, Operators, and Tenders, Except Sawing.

## ASK ANALYSIS

### Ability Level Comparison - Abilities with importance scores over 50

Description	Packaging and Filling Machine Operators and Tenders	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Importance
Reaction Time	60	60	68
Control Precision	60	51	65
Near Vision	60	51	65
Oral Comprehension	44	51	62
Manual Dexterity	53	48	62



Problem Sensitivity	48		44		59
Arm-Hand Steadiness	42		48		59
Rate Control	41		44		59
Trunk Strength	50		42		59
Auditory Attention	60		50		59
Oral Expression	44		44		56
Flexibility of Closure	57		37		56
Perceptual Speed	73		39		56
Visualization	48		51		56
Selective Attention	60		53		56
Multilimb Coordination	48		44		56
Response Orientation	50		46		56
Static Strength	60		42		56
Far Vision	50		44		56
Speech Clarity	41		35		56
Information Ordering	42		44		53
Finger Dexterity	55		44		53
Extent Flexibility	57		39		53
Speech Recognition	37		41		53
Written Comprehension	44		44		50
Deductive Reasoning	44		42		50
Inductive Reasoning	46		41		50
Visual Color Discrimination	41		41		50
Depth Perception	41		41		50

## Skill Level Comparison - Abilities with importance scores over 69

Description	Packaging and Filling Machine Operators and Tenders	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Importance
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## Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Packaging and Filling Machine Operators and Tenders	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Importance
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Production and Processing	59	57	71
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## Experience &amp; Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Packaging and Filling Machine Operators and Tenders	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Description	Packaging and Filling Machine Operators and Tenders	Woodworking Machine Setters, Operators, and Tenders, Except Sawing
10+ years	0%	1%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	14%	0%	Post-Masters Cert	0%	8%



0-6 years	0%	0%	Master's Degree	0%	0%
4-6 years	0%	0%	Post-Bachelor Cert	0%	0%
2-4 years	0%	2%	Bachelors	0%	0%
1-2 years	0%	24%	AA or Equiv	14%	8%
6-12 months	54%	26%	Some College	0%	0%
3-6 months	0%	14%	Post-Secondary Certificate	0%	3%
1-3 months	0%	19%	High School Diploma or GED	71%	70%
0-1 month	5%	2%	No HSD or GED	13%	8%
None	25%	9%			

## Packaging and Filling Machine Operators and Tenders

## Woodworking Machine Setters, Operators, and Tenders, Except Sawing

## Most Common Educational/Training Requirement:

Short-term on-the-job training

Moderate-term on-the-job training

## Job Zone Comparison

## 2 - Job Zone Two: Some Preparation Needed

Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.

These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.

Employees in these occupations need anywhere from a few months to one year of working with experienced employees.

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## Tasks

## Packaging and Filling Machine Operators and Tenders

## Core Tasks

## Generalized Work Activities:

- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Evaluating Information to Determine Compliance with Standards - Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
- Making Decisions and Solving Problems - Analyzing information and evaluating results to choose the best solution and

## Woodworking Machine Setters, Operators, and Tenders, Except Sawing

## Core Tasks

## Generalized Work Activities:

- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

## Specific Tasks



...to choose the best solution and solve problems.

- Scheduling Work and Activities - Scheduling events, programs, and activities, as well as the work of others.

### Specific Tasks

#### Occupation Specific Tasks:

- Adjust machine components and machine tension and pressure according to size or processing angle of product.
- Attach identification labels to finished packaged items, or cut stencils and stencil information on containers, such as lot numbers or shipping destinations.
- Clean and remove damaged or otherwise inferior materials to prepare raw products for processing.
- Clean packaging containers, line and pad crates, or assemble cartons to prepare for product packing.
- Clean, oil, and make minor adjustments or repairs to machinery and equipment, such as opening valves or setting guides.
- Count and record finished and rejected packaged items.
- Inspect and remove defective products and packaging material.
- Monitor the production line, watching for problems such as pile-ups, jams, or glue that isn't sticking properly.
- Observe machine operations to ensure quality and conformity of filled or packaged products to standards.
- Package the product in the form in which it will be sent out, for example, filling bags with flour from a chute or spout.
- Regulate machine flow, speed, or temperature.
- Remove finished packaged items from machine and separate rejected items.
- Secure finished packaged items by hand tying, sewing, gluing, stapling, or attaching fastener.
- Sort, grade, weigh, and inspect products, verifying and adjusting product weight or measurement to meet specifications.
- Stack finished packaged items, or wrap protective material around each item and pack the items in cartons or containers.
- Start machine by engaging controls.
- Stock and sort product for packaging or filling machine operation, and replenish packaging supplies, such as wrapping paper, plastic sheet, boxes, cartons, glue, ink, or labels.
- Stop or reset machines when malfunctions occur, clear machine jams, and report malfunctions to a supervisor.
- Supply materials to spindles, conveyors, hoppers, or other feeding devices and unload packaged product.

#### Occupation Specific Tasks:

- Adjust machine tables or cutting devices and set controls on machines to produce specified cuts or operations.
- Attach and adjust guides, stops, clamps, chucks, and feed mechanisms, using hand tools.
- Change alignment and adjustment of sanding, cutting, or boring machine guides in order to prevent defects in finished products, using hand tools.
- Clean and maintain products, machines, and work areas.
- Control hoists to remove parts or products from work stations.
- Determine product specifications and materials, work methods, and machine setup requirements, according to blueprints, oral or written instructions, drawings, or work orders.
- Examine finished workpieces for smoothness, shape, angle, depth-of-cut, and conformity to specifications, and verify dimensions, visually and using hands, rules, calipers, templates, or gauges.
- Examine raw woodstock for defects, and to ensure conformity to size and other specification standards.
- Feed stock through feed mechanisms or conveyors into planing, shaping, boring, mortising, or sanding machines to produce desired components.
- Inspect and mark completed workpieces and stack them on pallets, in boxes, or on conveyors so that they can be moved to the next workstation.
- Inspect pulleys, drive belts, guards, and fences on machines to ensure that machines will operate safely.
- Install and adjust blades, cutterheads, boring-bits, or sanding-belts, using hand tools and rules.
- Monitor operation of machines, and make adjustments to correct problems and ensure conformance to specifications.
- Operate gluing machines to glue pieces of wood together, or to press and affix wood veneer to wood surfaces.
- Push or hold workpieces against, under, or through cutting, boring or shaping mechanisms.
- Remove and replace worn parts, bits, belts, sandpaper, and shaping tools.
- Secure woodstock against a guide or in a holding device, place woodstock on a conveyor, or dump woodstock in a hopper to feed woodstock into machines.
- Select knives, saws, blades, cutter heads, cams, bits, or belts, according to workpiece, machine functions, and product specifications.
- Set up, program, and control



- tend or operate machine that packages product.

#### Detailed Tasks

##### Detailed Work Activities:

- adjust production equipment/machinery setup
- attach or mark identification onto products or containers
- clean equipment or machinery
- examine products or work to verify conformance to specifications
- grade, classify, or sort products according to specifications
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- maintain production or work records
- measure, weigh, or count products or materials
- monitor production machinery/equipment operation to detect problems
- operate packaging or banding machine or equipment
- package goods for shipment or storage
- perform safety inspections in manufacturing or industrial setting
- stock or organize goods
- test manufactured products or materials
- wrap products

#### Technology - Examples

##### Data base user interface and query software

- Data entry software

##### Electronic mail software

- Email software

##### Label making software

- Label printing software

##### Spreadsheet software

- Spreadsheet software

##### Word processing software

- Word processing software

#### Tools - Examples

- Adjustable wrenches
- Dial calipers
- Desktop computers

computer-aided design (CAD) or computer numerical control (CNC) machines.

- Set up, program, operate, or tend computerized or manual woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood-nailing machines.
- Sharpen knives, bits, and other cutting and shaping tools.
- Start machines and move levers to engage hydraulic lifts that press woodstocks into desired forms, and disengage lifts after appropriate drying times.
- Start machines, adjust controls, and make trial cuts to ensure that machinery is operating properly.
- Trim wood parts according to specifications, using planes, chisels, and wood files or sanders.
- Unclamp workpieces and remove them from machines.

#### Detailed Tasks

##### Detailed Work Activities:

- adjust production equipment/machinery setup
- attach or mark identification onto products or containers
- clean equipment or machinery
- clean rooms or work areas
- cut, shape, fit, or join wood or other construction materials
- examine products or work to verify conformance to specifications
- inspect machinery or equipment to determine adjustments or repairs needed
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- monitor production machinery/equipment operation to detect problems
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- operate lathes
- operate woodworking equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read blueprints
- read production layouts
- read specifications



- Industrial platform scales

- Forklifts

- Glue guns

- Claw hammers

- Handtrucks

- Pallet jacks

- Label-making machines

- Powered roll lifts

- Locking pliers

- Pallet movers

- Personal computers

- Power drills

- Box cutters

- Scanners

- Phillips head screwdrivers

- Industrial sewing machines

- Power staple guns

- Stencils

- Step stools

- Measuring tapes

- Space measuring gauges

- Utility knives

- Wire brushes

- read technical drawings

- read work order, instructions, formulas, or processing charts

- set up computer numerical control machines

- set up production equipment or machinery

- understand technical operating, service or repair manuals

- use hand or power tools

- use hand or power woodworking tools

- use precision measuring tools or equipment

#### Technology - Examples

### Labor Market Comparison

Description	Packaging and Filling Machine Operators and Tenders	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Difference
Median Wage	\$ 24,800	\$ 23,040	\$( 1,760)
10th Percentile Wage	\$ 17,150	\$ 16,810	\$( 340)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 29,350	\$ 28,300	\$( 1,050)
90th Percentile Wage	\$ 41,440	\$ 33,900	\$( 7,540)
Mean Wage	\$ 26,470	\$ 24,150	\$( 2,320)



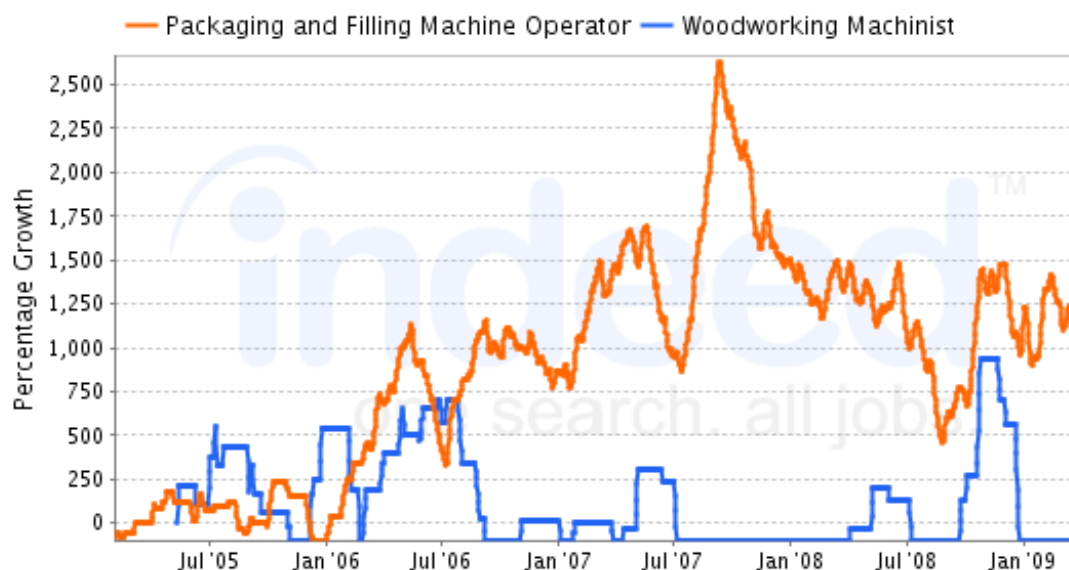
Total Employment - 2007	1,710	900	-810
Employment Base - 2006	1,787	926	-861
Projected Employment - 2016	1,569	815	-754
Projected Job Growth - 2006-2016	-12.2 %	-12.0 %	0.2 %
Projected Annual Openings - 2006-2016	33	23	-10

## National Job Posting Trends

Trend for Packaging and Filling Machine Operators and Tenders

Trend for  
Woodworking  
Machine  
Setters,  
Operators,  
and Tenders,  
Except  
Sawing

### Job Trends from Indeed.com



Data from [Indeed](http://Indeed.com)

## Recommended Programs

### Woodworkers, General

Woodworking, General. A program that generally prepares individuals to apply technical knowledge and skills to lay out and shape stock; assemble wooden articles or subassemblies; mark, bind, saw, carve, and sand wooden products; repair wooden articles, and use a variety of hand and power tools.

No schools available for the program

### Cabinet Maker and Millworker

Cabinetmaking and Millwork/Millwright. A program that prepares individuals to apply technical knowledge and skills to set up, operate and repair industrial woodworking machinery, and to use such machinery to design and fabricate wooden components and complete articles.

No schools available for the program





## Maine Statewide Promotion Opportunities for Packaging and Filling Machine Operators and Tenders

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
51-9111.00	Packaging and Filling Machine Operators and Tenders	100	2	1,710	\$24,800.00	\$0.00	-12%	33
51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	88	2	850	\$38,860.00	\$14,060.00	-26%	19
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	88	2	910	\$38,230.00	\$13,430.00	-26%	23
53-7063.00	Machine Feeders and Offbearers	88	1	480	\$26,820.00	\$2,020.00	-22%	9
51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	87	2	260	\$28,330.00	\$3,530.00	-7%	5
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	87	2	120	\$36,960.00	\$12,160.00	2%	3
51-6064.00	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	87	3	290	\$25,840.00	\$1,040.00	0%	0
51-9032.00	Cutting and Slicing Machine Setters, Operators, and Tenders	87	2	710	\$31,350.00	\$6,550.00	-23%	12
51-2031.00	Engine and Other Machine Assemblers	87	3	20	\$29,010.00	\$4,210.00	-45%	1
51-5021.00	Job Printers	87	3	140	\$31,890.00	\$7,090.00	-10%	2
51-4023.00	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	86	2	0	\$33,460.00	\$8,660.00	0%	0





51-9051.00	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	86	2	300	\$32,980.00	\$8,180.00	-18%	9
51-9191.00	Cementing and Gluing Machine Operators and Tenders	85	1	80	\$27,620.00	\$2,820.00	-15%	2
51-6062.00	Textile Cutting Machine Setters, Operators, and Tenders	85	3	110	\$24,860.00	\$60.00	-13%	4
51-5011.00	Bindery Workers	84	2	350	\$26,130.00	\$1,330.00	-20%	5

### Top Industries for Woodworking Machine Setters, Operators, and Tenders, Except Sawing

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Other wood product manufacturing	321900	36.45%	36,277	37,604	3.66%
Veneer, plywood, and engineered wood product manufacturing	321200	11.85%	11,792	14,125	19.78%
Household and institutional furniture manufacturing	337120	11.01%	10,956	9,170	-16.30%
Wood kitchen cabinet and countertop manufacturing	337110	10.35%	10,303	12,549	21.79%
Sawmills and wood preservation	321100	7.40%	7,366	6,496	-11.81%
Office furniture (including fixtures) manufacturing	337200	6.70%	6,668	6,897	3.43%
Building material and supplies dealers	444100	3.48%	3,466	4,872	40.57%
Self-employed workers, primary job	000601	2.74%	2,725	3,194	17.19%
Lumber and other construction materials merchant wholesalers	423300	1.07%	1,064	1,344	26.35%
Employment services	561300	0.78%	776	1,081	39.22%
Pulp, paper, and paperboard mills	322100	0.43%	428	326	-23.70%
Other furniture related product manufacturing	337900	0.37%	367	422	14.84%
Management of companies and enterprises	551100	0.35%	352	447	26.81%
Medical equipment and supplies manufacturing	339100	0.23%	226	254	12.52%
Ship and boat building	336600	0.17%	165	203	23.12%

### Top Industries for Packaging and Filling Machine Operators and Tenders

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Employment services	561300	15.91%	61,399	69,938	13.91%



Fruit and vegetable preserving and specialty food manufacturing	311400	6.27%	24,207	19,753	-18.40%
Pharmaceutical and medicine manufacturing	325400	5.30%	20,448	23,193	13.42%
Beverage manufacturing	312100	5.21%	20,102	16,990	-15.48%
Animal slaughtering and processing	311600	4.44%	17,134	17,599	2.71%
Other food manufacturing	311900	4.04%	15,606	14,726	-5.63%
Plastics product manufacturing	326100	4.03%	15,570	14,854	-4.60%
Bakeries and tortilla manufacturing	311800	3.58%	13,834	12,718	-8.07%
Soap, cleaning compound, and toilet preparation manufacturing	325600	3.46%	13,344	11,539	-13.53%
Other support services	561900	3.44%	13,269	16,360	23.29%
Dairy product manufacturing	311500	3.40%	13,143	11,702	-10.96%
Grocery and related product wholesalers	424400	2.79%	10,767	10,596	-1.59%
Warehousing and storage	493100	1.86%	7,173	8,622	20.21%
Grain and oilseed milling	311200	1.80%	6,939	5,446	-21.51%
Sugar and confectionery product manufacturing	311300	1.63%	6,276	4,758	-24.20%